FMD-126US

Appln. No.: 10/554,028 Amendment December 20, 2010

Reply to Office Action of October 1, 2010

<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1 - 6. (Canceled)

7. (Canceled)

8. **(Currently Amended)** A method for increasing an-early-fruit number or fruit weight in a nonleguminous plant comprising the steps of applying to the plant a first dose of a lipochitooligosaccharide (LCO) at a concentration of from about 1 ng to about 1000 ng per plant; and applying to the plant a second dose of an LCO at a concentration of from about 1 ng to about 1000 ng per plant.

9. - 16. (Canceled)

- (Currently Amended) The method of claim 8, wherein the nonleguminous plant is of the family Brassicaceae, Solonaceae, Chenopodiaceae, Asteraceae, Malvaceae, Cucurbitaceae, or Poaceae.
- 18. (Previously Presented) The method of claim 8, wherein the LCO is applied at a concentration of from about 10 ng per plant to about 100 ng per plant.
- (Currently Amended) The method of claim 8, wherein the nonleguminous plant is a tomato plant, a pepper plant, or a strawberry-corn plant.
- 20. (**Previously Presented**) The method of claim 18, wherein the LCO is applied at a concentration of from about 50 ng per plant to about 75 ng per plant.
- 21. (Currently Amended) A method for increasing an early-flower-numberbiomass or yield in a nenleguminous plant comprising the steps of applying to the plant a first dose of a lipochitooligosaccharide (LCO) at a concentration of from about 1 ng to about 1000 ng per plant; and applying to the plant a second dose of an LCO at a concentration of from about 1 ng to about 1000 ng per plant.

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 (Currently Amended) The method of claim 21, wherein the nonleguminous plant is of the family <u>Fabaceae</u>Brassicaceae, Solonaceae, Chenopodiaceae, Asteraceae, Malvaceae, Cucurbitaceae, or Poaceae.

- 23. (**Previously Presented**) The method of claim 21, wherein the LCO is applied at a concentration of from about 10 ng per plant to about 100 ng per plant.
- 24. (Currently Amended) The method of claim 21, wherein the nonleguminous plant is a tomato-soybean plant.
- 25. (Canceled)
- 26-27. (Canceled)
- 28-30. (Canceled)
- 31-33. (Canceled)
- 34. (Currently Amended) The method of claim 8, wherein the step of applying an LCO comprises applying a first dose of LCO and a second dose of LCO, wherein the second dose is applied between about two weeks to about six weeks after the first dose.
- 35. (Currently Amended) The method of claim 21, wherein the step of applying an LCO comprises applying a first dose of LCO and a second dose of LCO, wherein the second dose is applied at least three about two weeks after the first dose.
- 36. (Currently Amended) The method of claim 8, comprising applying wherein the LCO is applied to the foliage of the plant.
- 37. (Currently Amended) The method of claim 21, comprising-applyingwherein the LCO is applied to the foliage of the plant.
- 38. (Canceled)
- 39. (Canceled)
- 40. (New) A method for increasing fruit number, fruit weight, biomass, or yield in a tomato plant, pepper plant, or soybean plant comprising the steps of applying to the plant a first dose

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of a lipochitooligosaccharide (LCO) at a concentration of from about 10 ng to about 100 ng per plant; and applying to the plant a second dose of an LCO at a concentration of from about 10 ng to about 100 ng per plant, wherein the second dose is applied between about two weeks to about six weeks after the first dose.